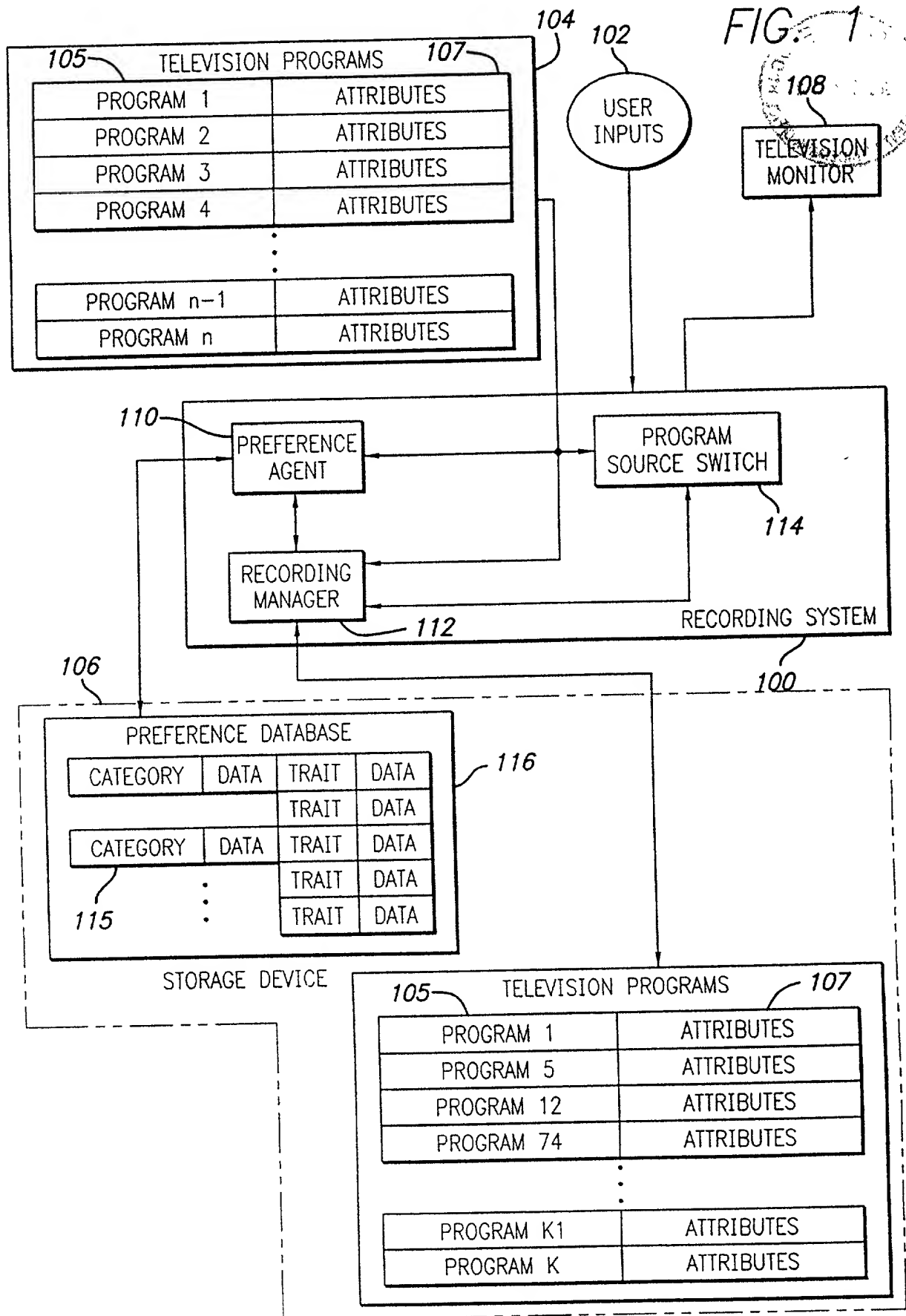


FIG. 1



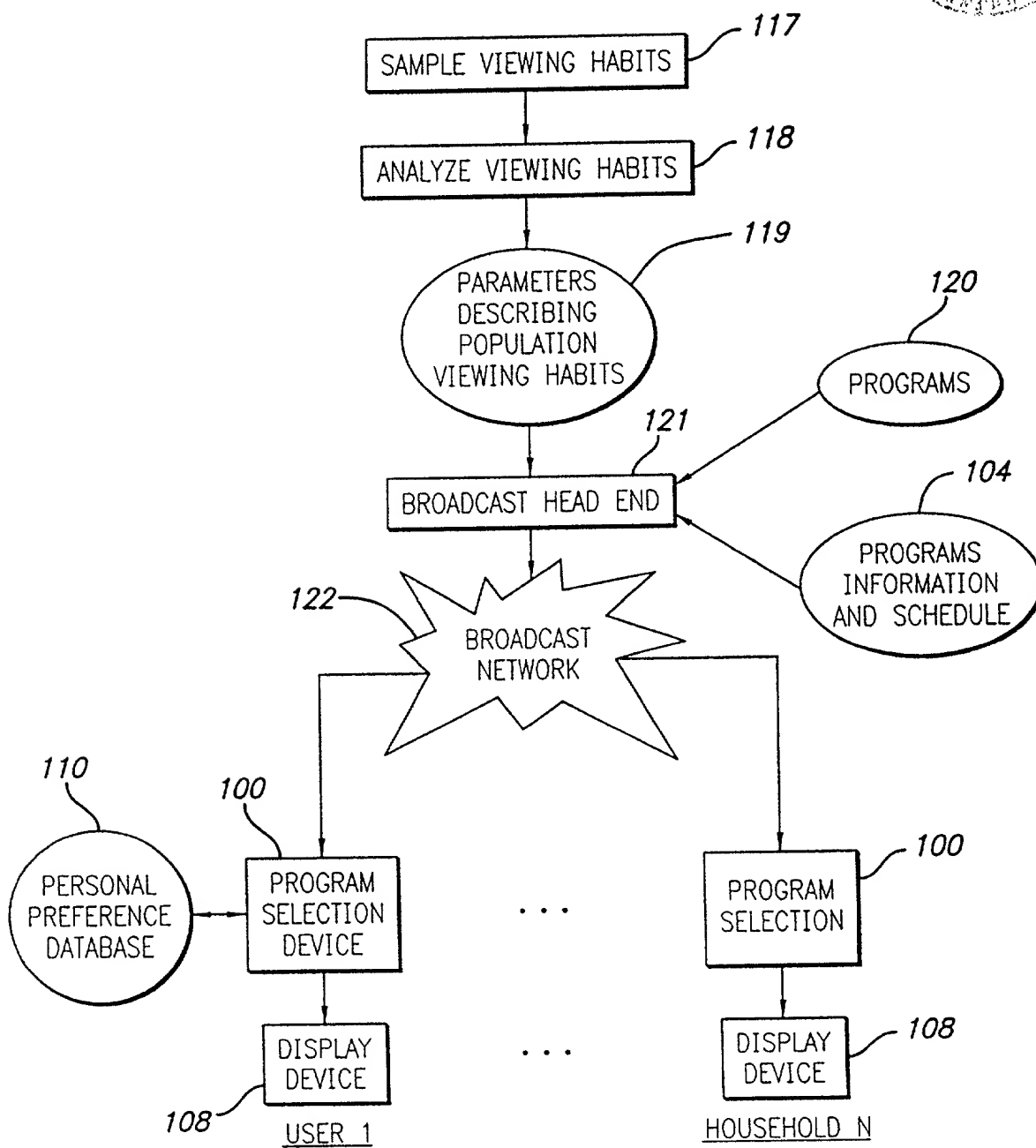
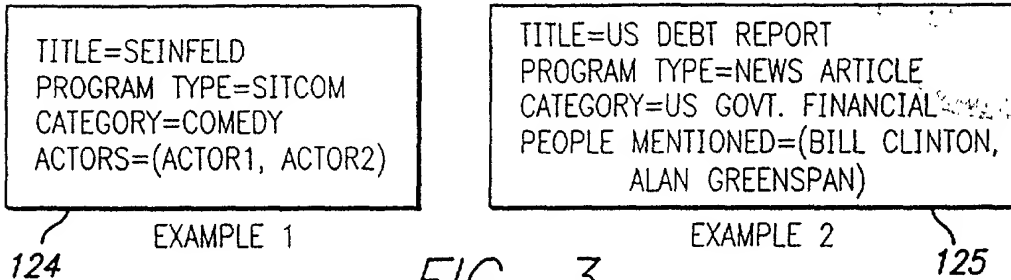
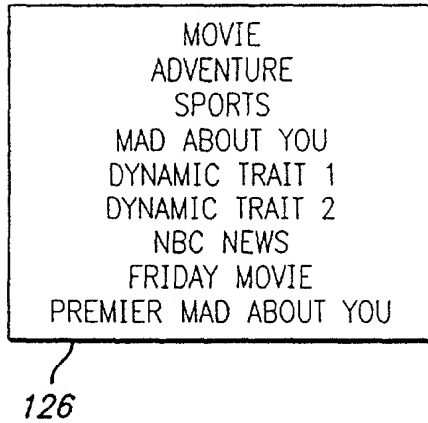


FIG. 2

EXAMPLES OF PROGRAM INFORMATION



EXAMPLES FOR TRAITS



EXAMPLES FOR LIKING FOR VIEWER N

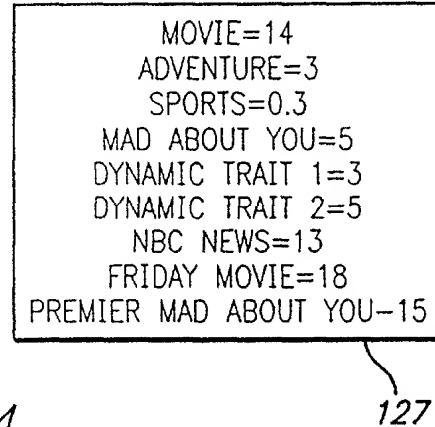


FIG. 4

SOME SAMPLE VALUES FOR FIELDS IN TRAIT RECORD

TRAIT TYPE

STATIC
DYNAMIC
ASSOCIATION
GENERATED

TRAIT DESCRIPTION

(NBC, "NEWS").
SUBSTRING("CIA")IN DESC.
TITLE

DISTRIBUTION

NORMAL
EXPONENTIAL
DEFINED TYPE 1
DEFINED TYPE 2

DISTRIBUTION PARAMETERS

MEAN=13, DEVIATION=2

FIG. 11

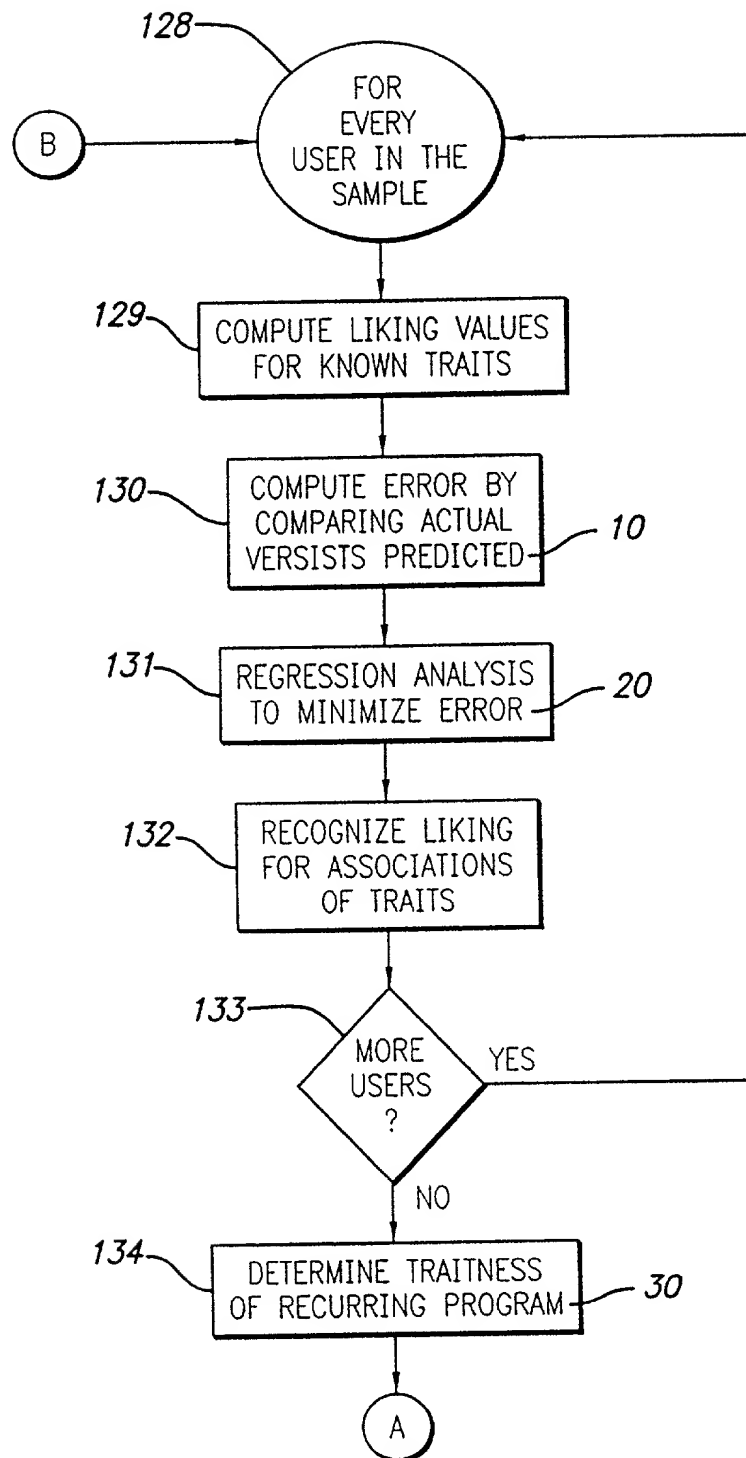


FIG. 5A

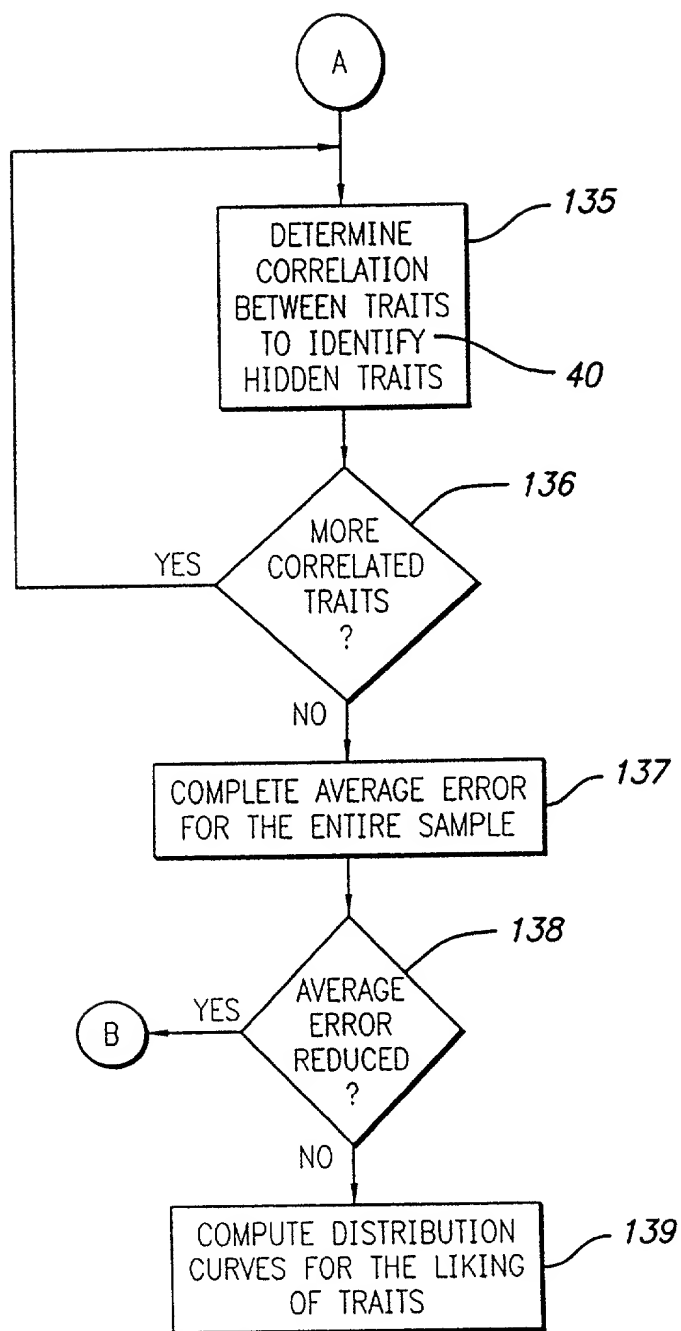
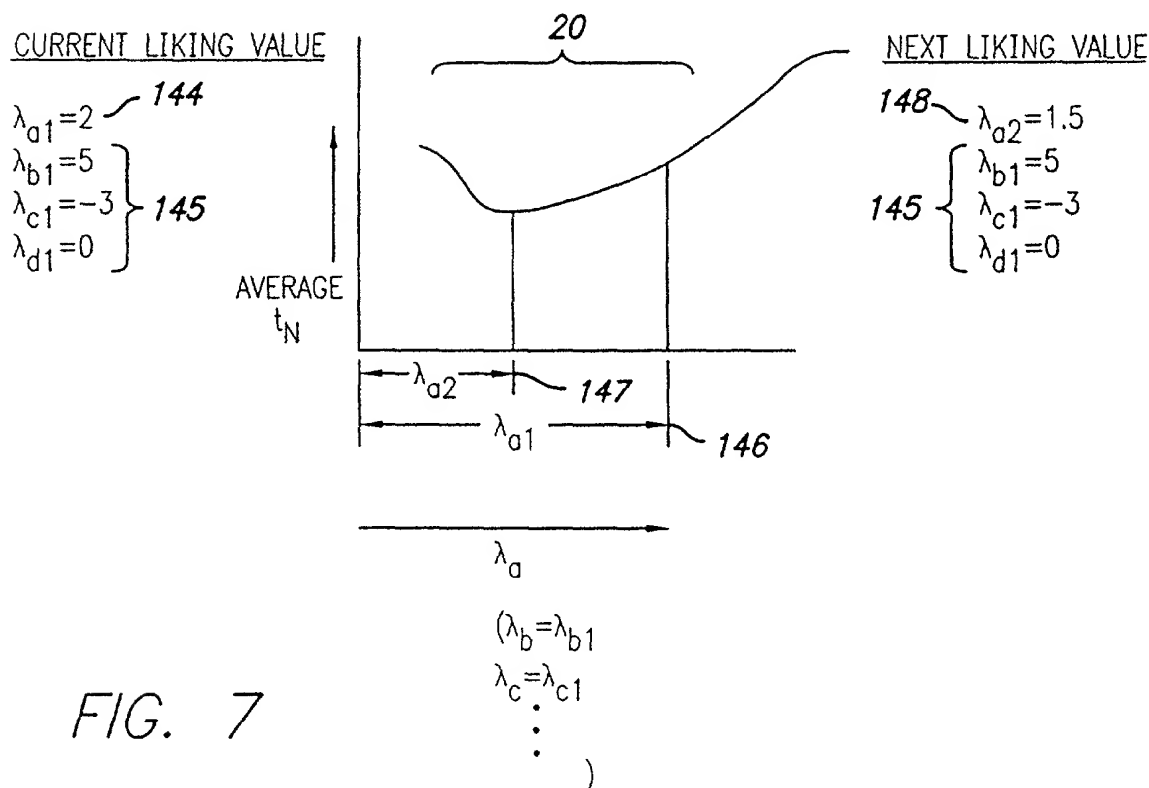


FIG. 5B

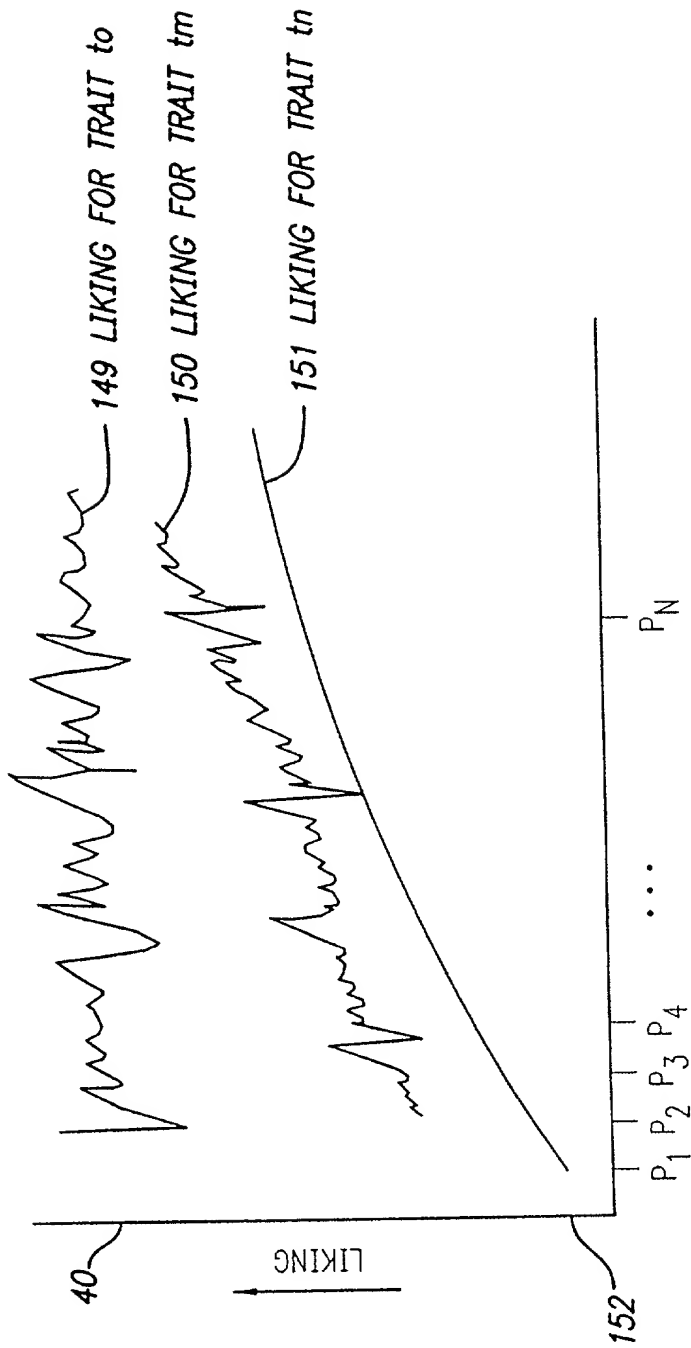
FIG. 6

Column	Program	Liking	Total Liking	Error
141	PROGRAM 4	0.7	10.00	ERROR=3
	PROGRAM 7	0.68		
	PROGRAM 3	0.58		
	PROGRAM 13	0.44		
	PROGRAM 2	0.03		
143	PROGRAM 18	0.07	10.30	
	PROGRAM 15	0.68		
	PROGRAM 12	0.58		
	PROGRAM 13	0.44		
	PROGRAM 53	0.03		
141	PROGRAM N1	0.07	11.00	ERROR=15
	PROGRAM N2	0.68		
	PROGRAM N3	0.58		
	PROGRAM 13	0.44		
	PROGRAM N15	0.03		

140 SORTED IN DESCENDING ORDER OF LIKING



RECOGNIZE HIDDEN TRAITS IN PROGRAMS



t_m & t_n ARE CORRELATED

→ t_m CAN BE EXPRESSED AS $t_m = t_x + t'_m$

t_n CAN BE EXPRESSED AS $t_n = Ct_x + t'_n$

FIG. 8

FIG. 9A COMPUTING TRAITNESS OF A TRAIT IN A PROGRAM

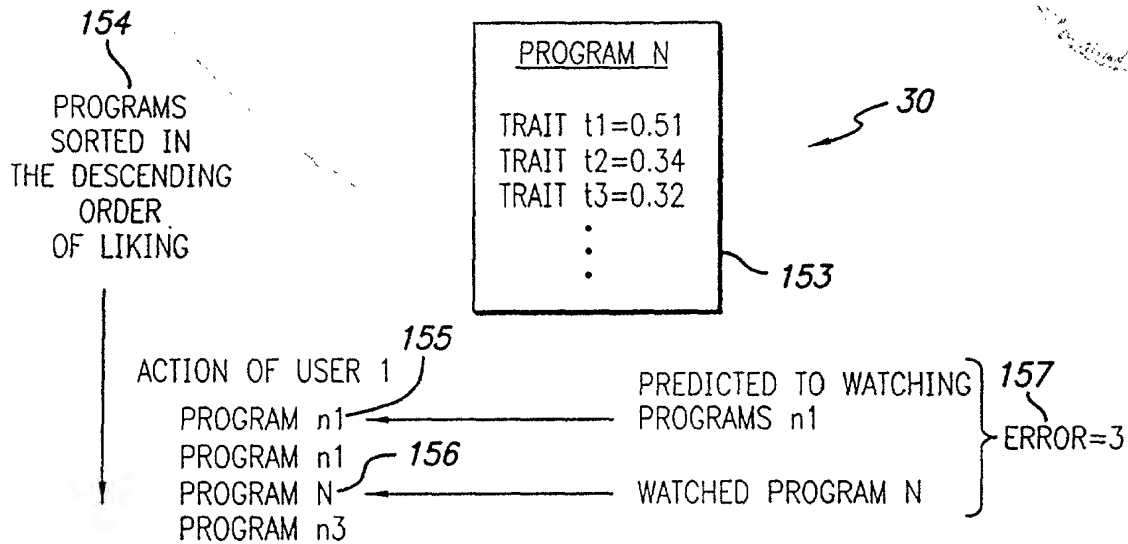
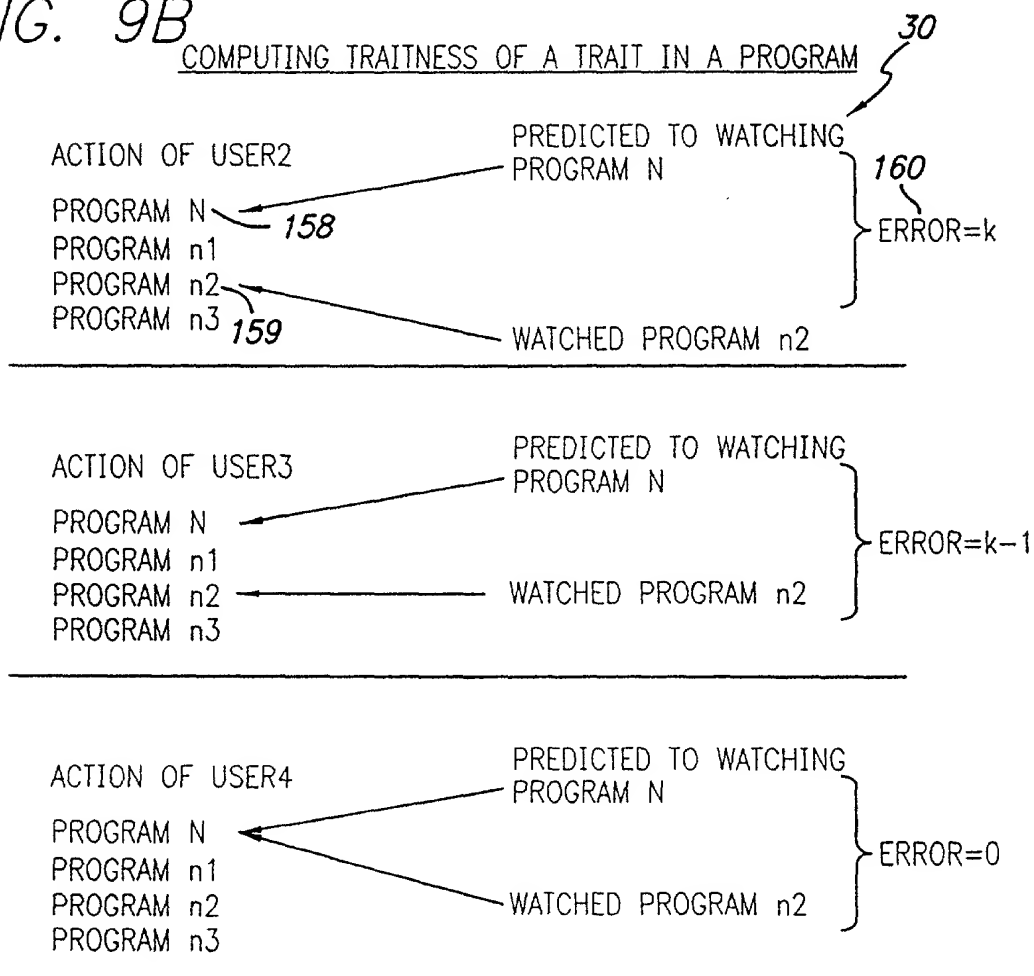


FIG. 9B COMPUTING TRAITNESS OF A TRAIT IN A PROGRAM



COMPUTING TRAITNESS OF A TRAIT IN A PROGRAM

FIG. 9C

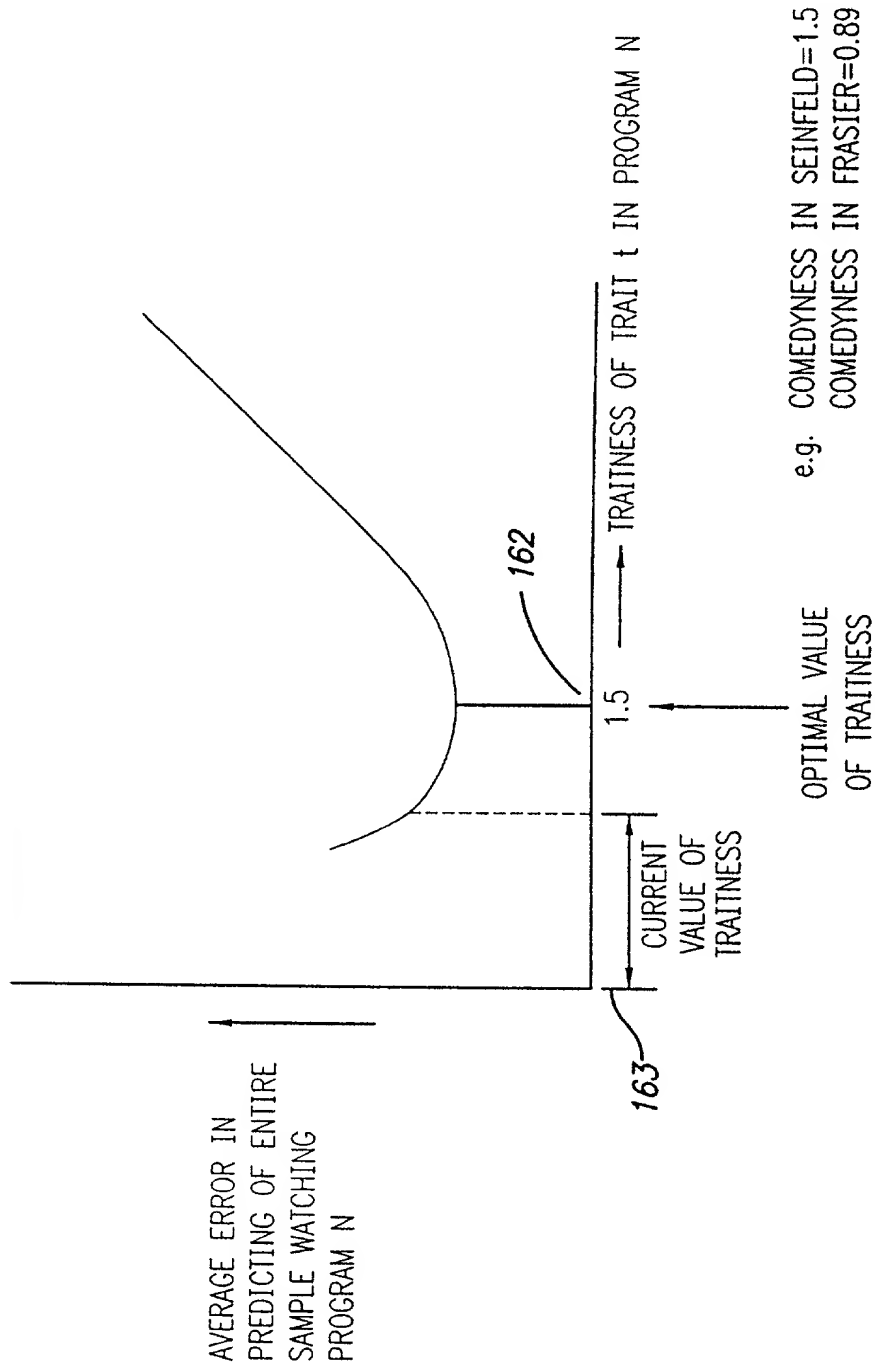


FIG. 10

EXAMPLE FOR LIKING DISTRIBUTION RECORD FORMAT

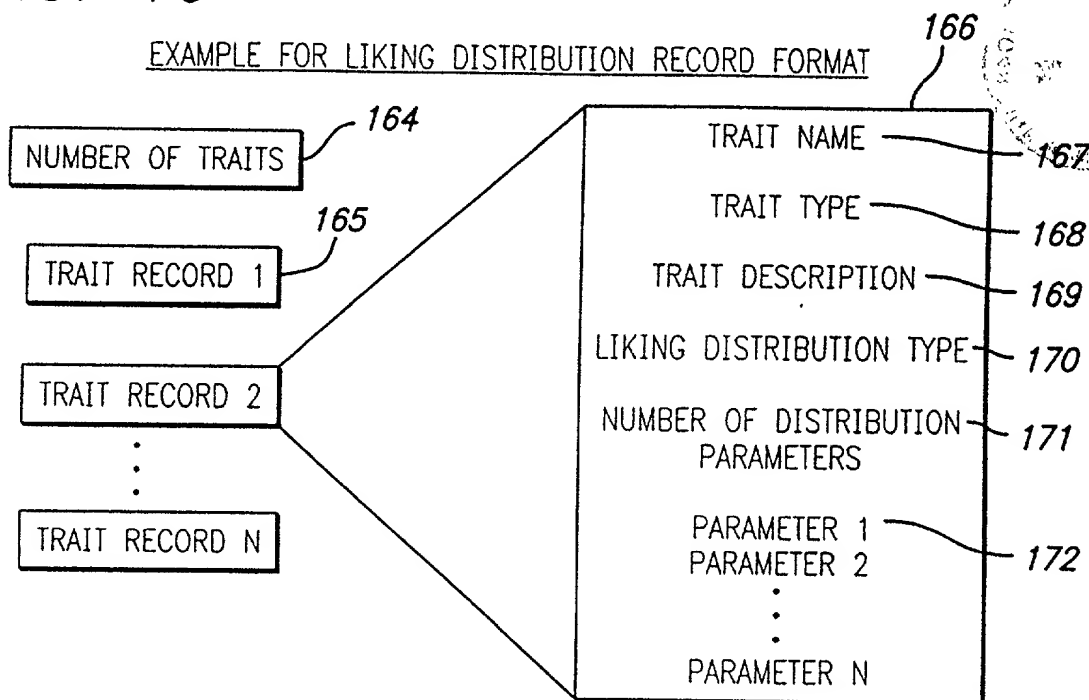


FIG. 12

EXAMPLE FOR TRAITNESS OF RECURRING PROGRAMS

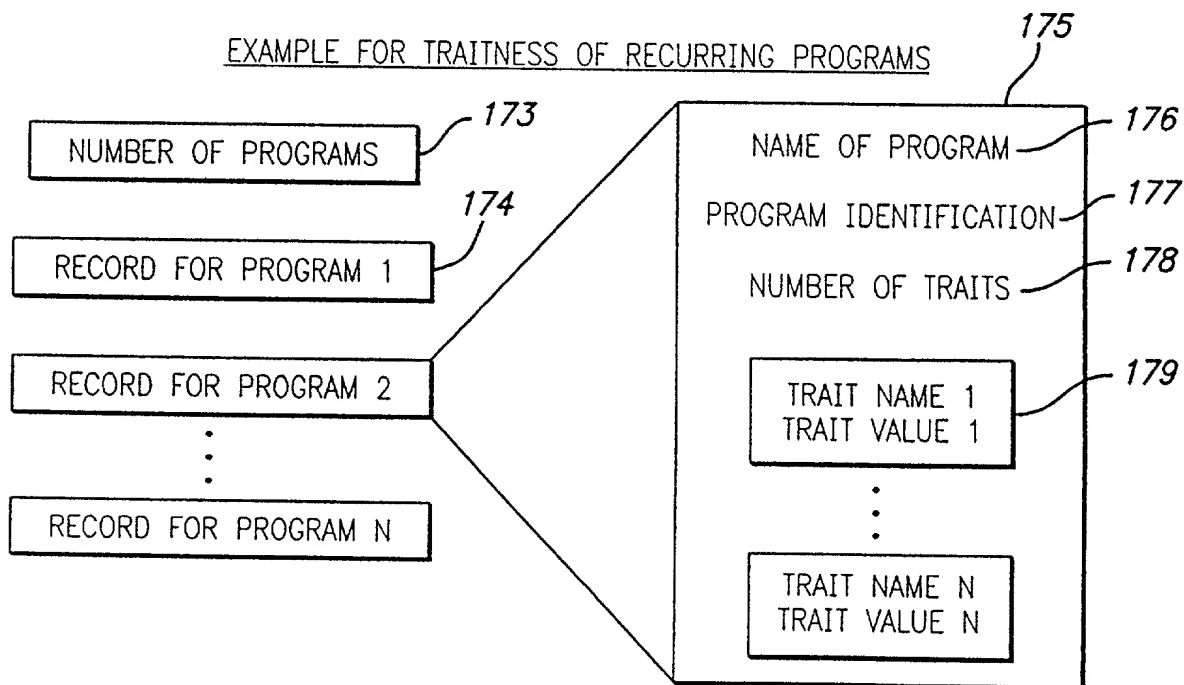


FIG. 13

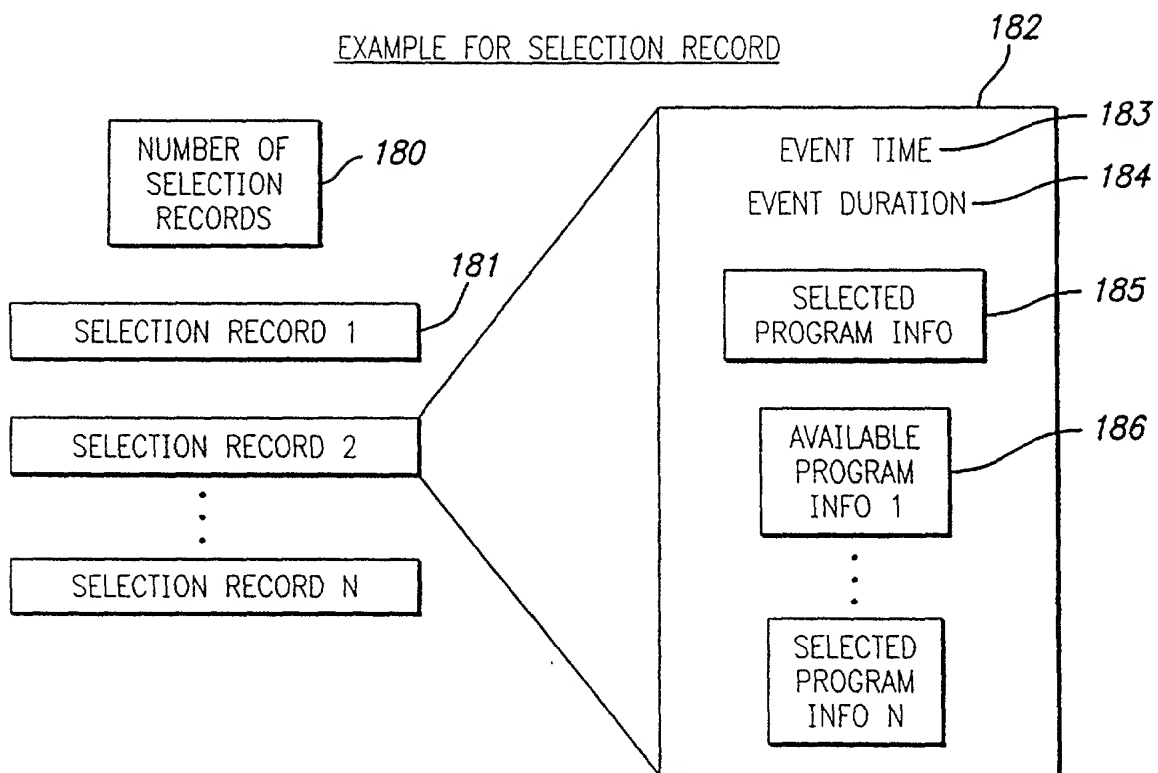
EXAMPLE FOR BROADCASTING TRAITNESS AS A PART OF EPG DATA

PROGRAM INFO

SEINFELD,
NBC,
COMEDY=0.07
SITCOM,
DYNAMIC TRAIT 1=0.1
:
ACTOR=SEINFELD

FIG. 14

EXAMPLE FOR SELECTION RECORD



GENERATION OF USER SELECTION HISTORY

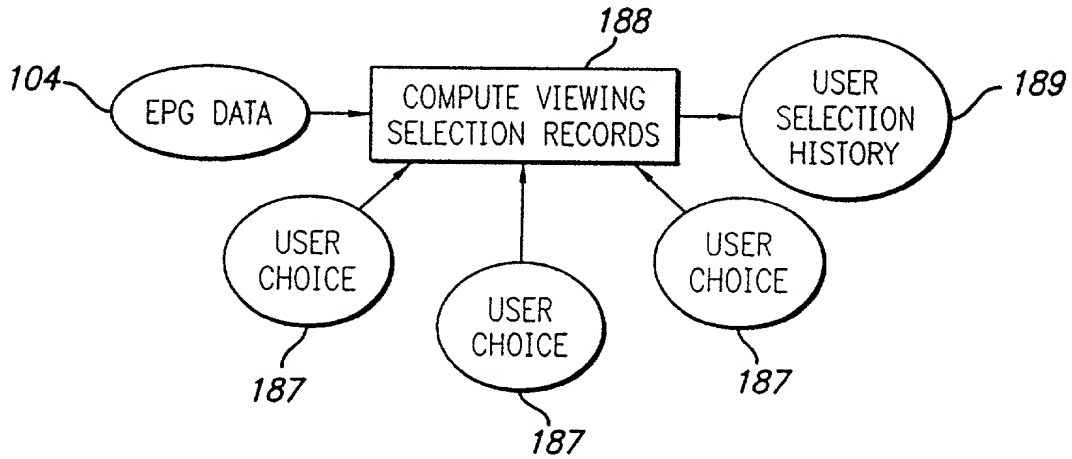


FIG. 15

COMPUTING RELEVANCE

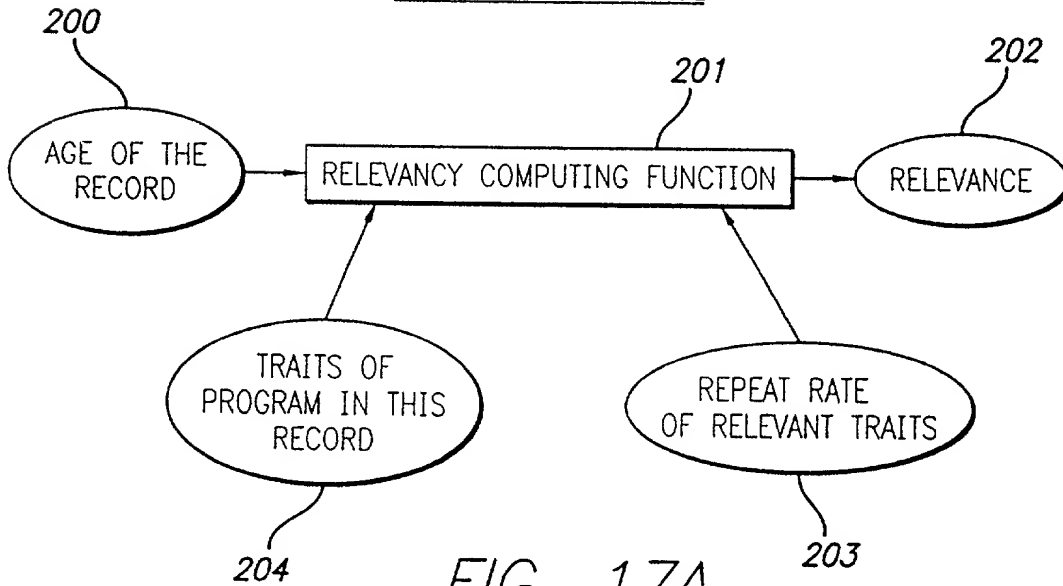
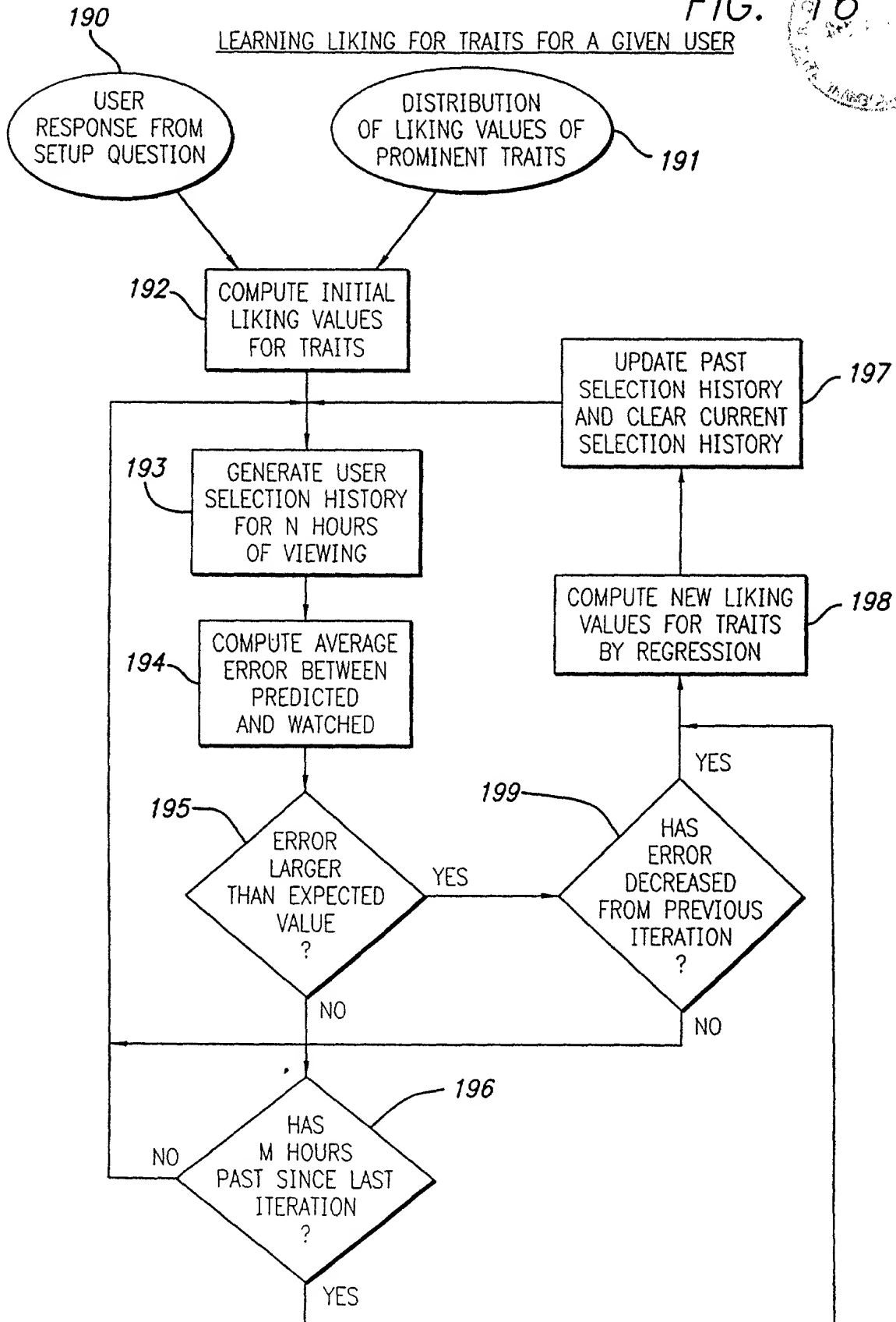


FIG. 17A

FIG.

16

LEARNING LIKING FOR TRAITS FOR A GIVEN USER



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UPDATION OF PAST SELECTION HISTORY

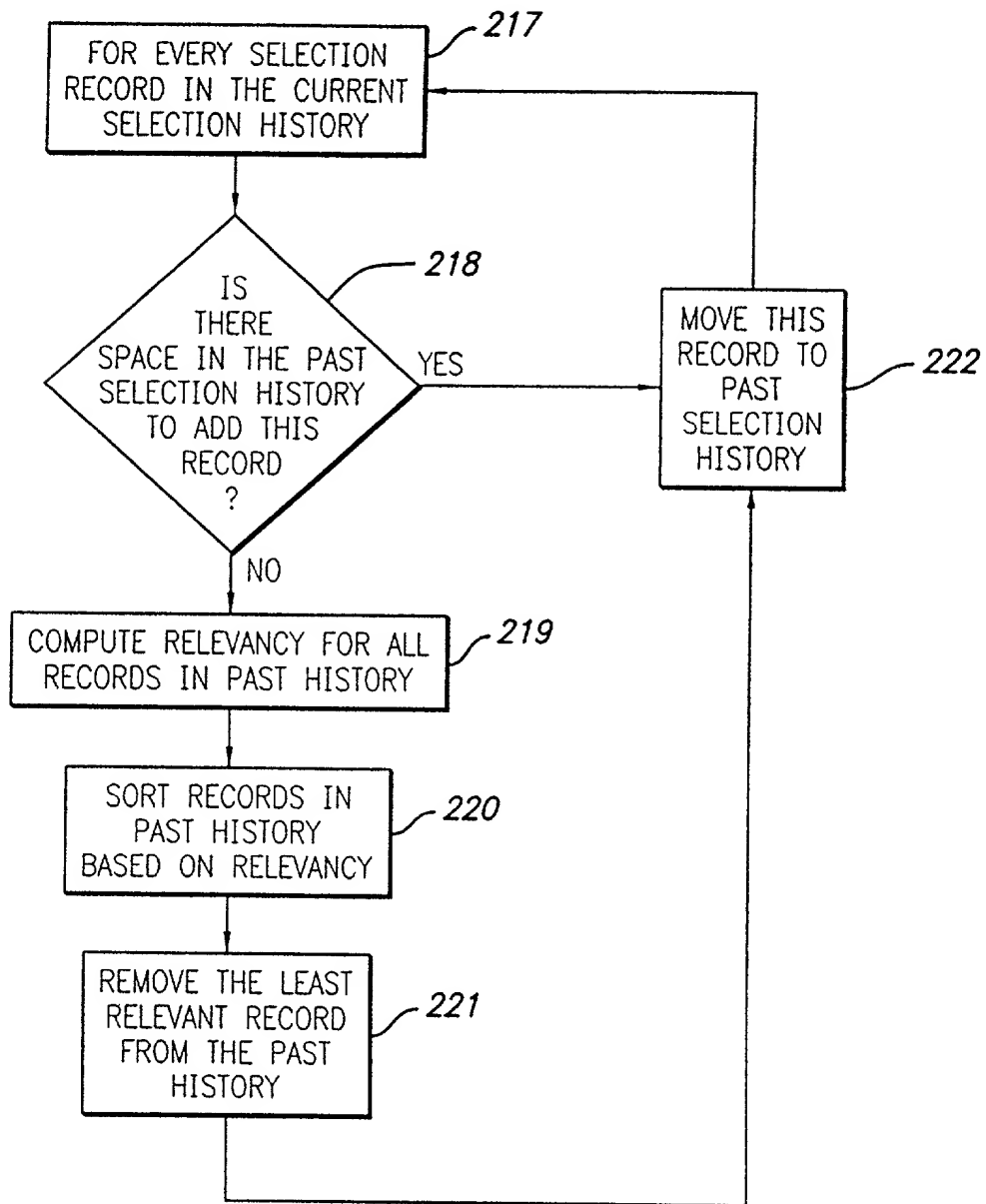
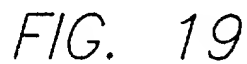
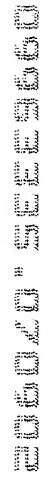
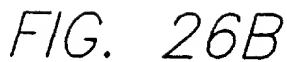


FIG. 18B

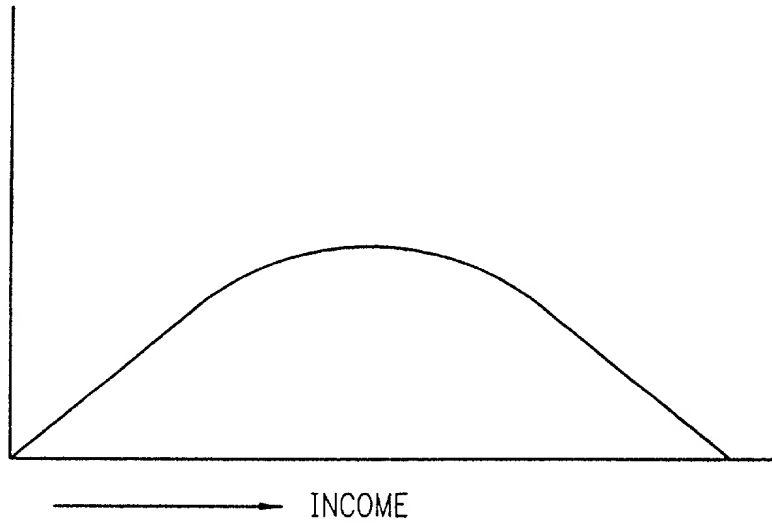
Abstract



[illegible]

DISTRIBUTION OF INCOME IN SAMPLE

NUMBER
OF PEOPLE



P_{INCOME}

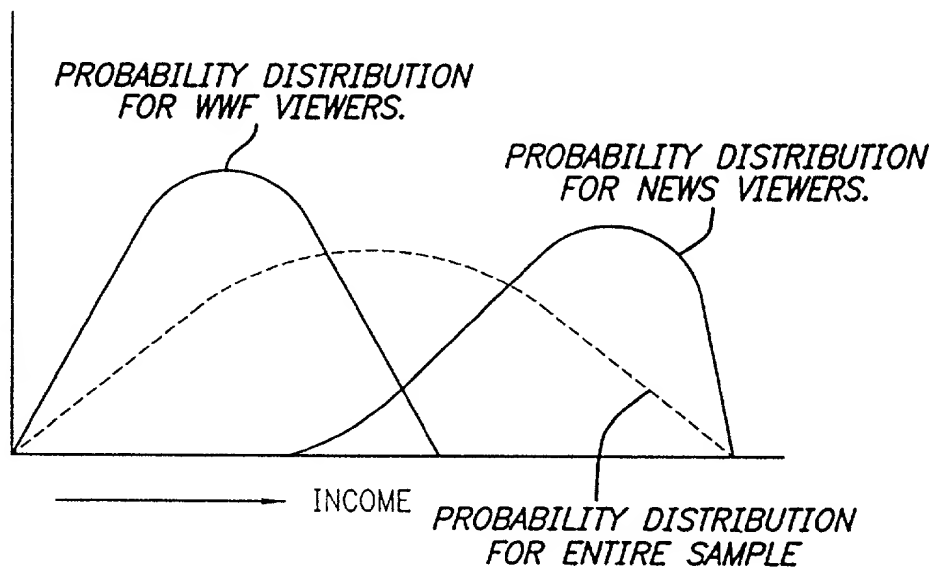
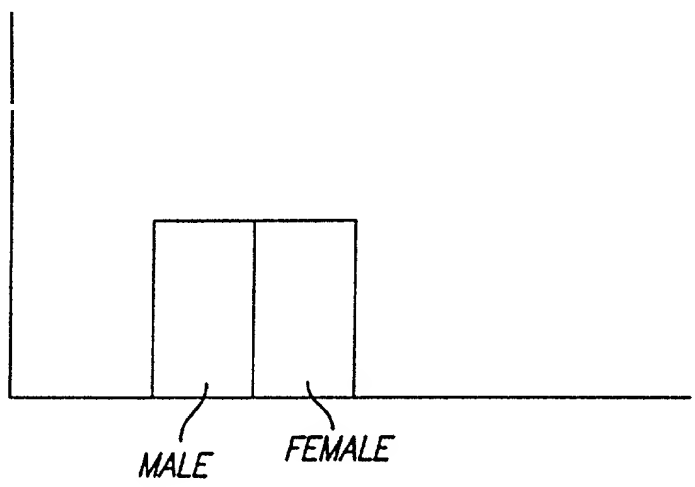


FIG. 21A

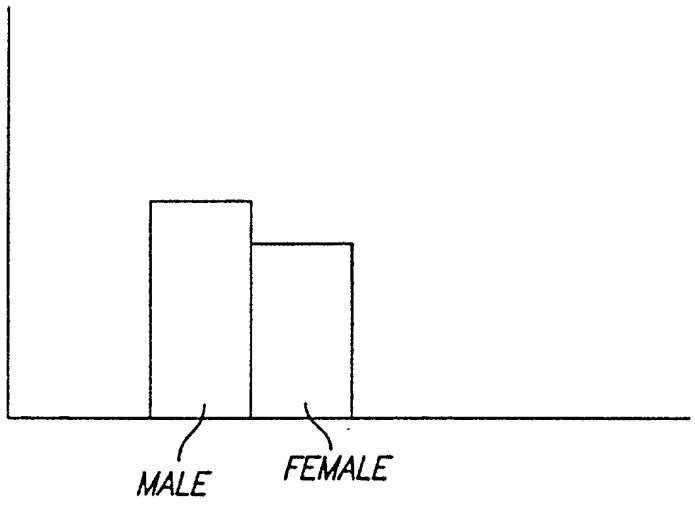
20070707 070000



$P_{\text{ENTIRE SAMPLE}}$



$P_{\text{VIEWER OF 'SEINFELD'}}$



$P_{\text{VIEWERS OF 'DAYS OF OUR LIVES'}}$

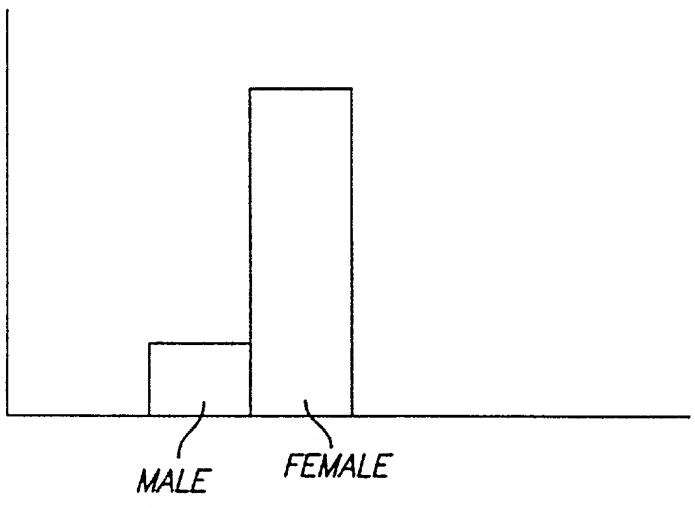


FIG. 21B

SYSTEM ARCHITECTURE

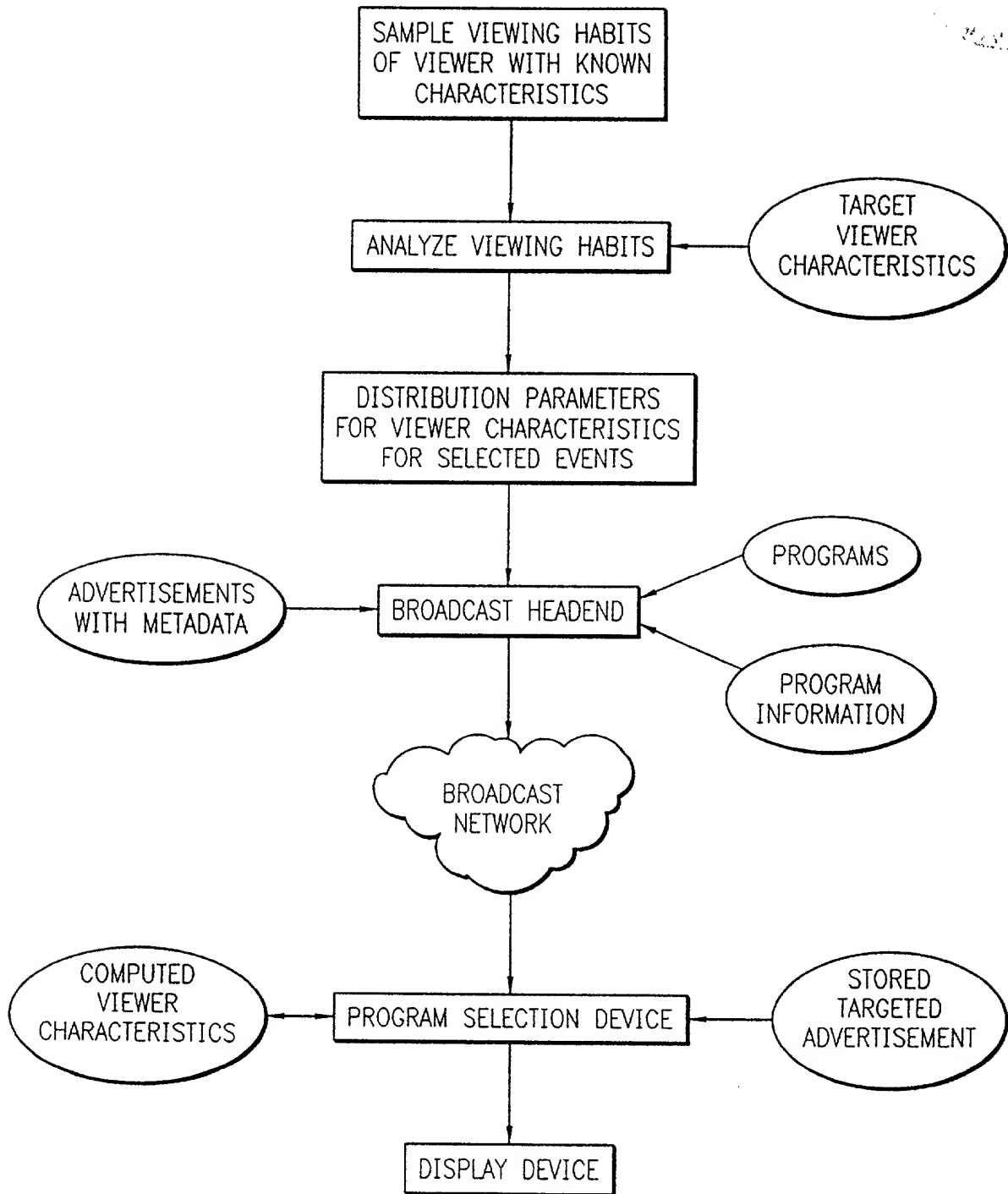


FIG. 22

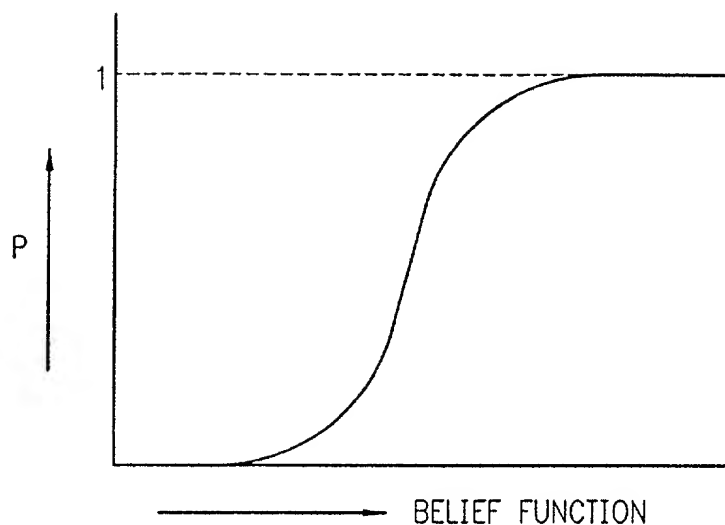


FIG. 23A

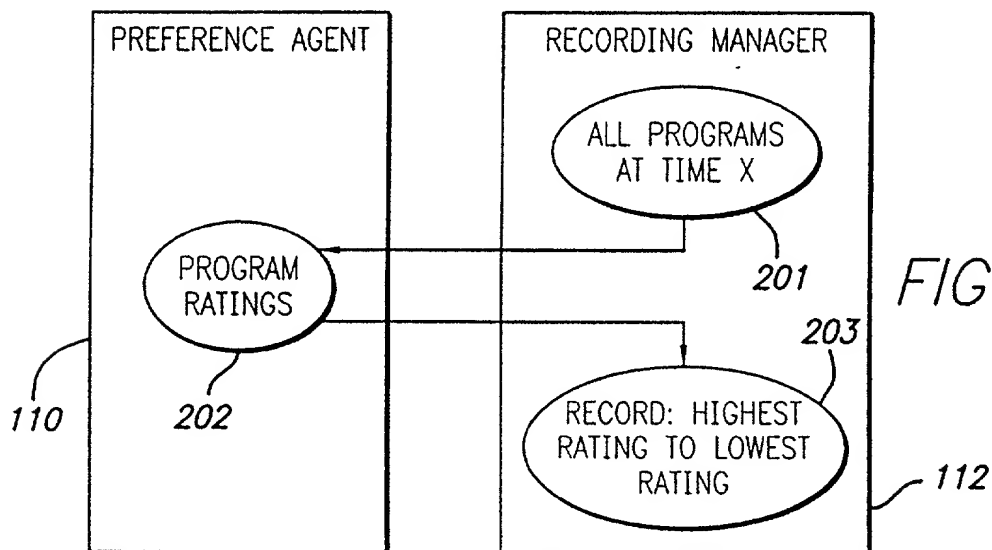


FIG. 24

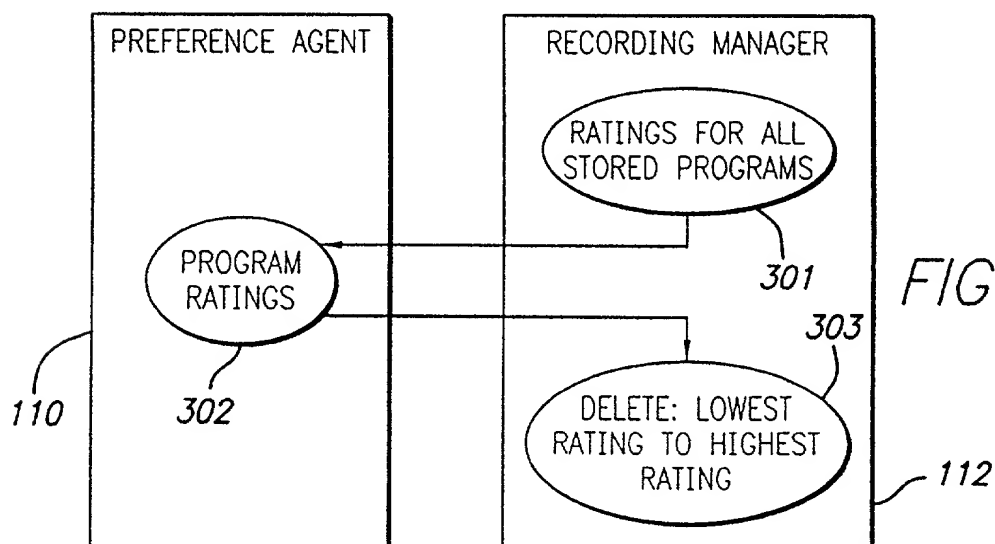


FIG. 25

DEMOGRAPHIC TRAIT RECORD FORMAT

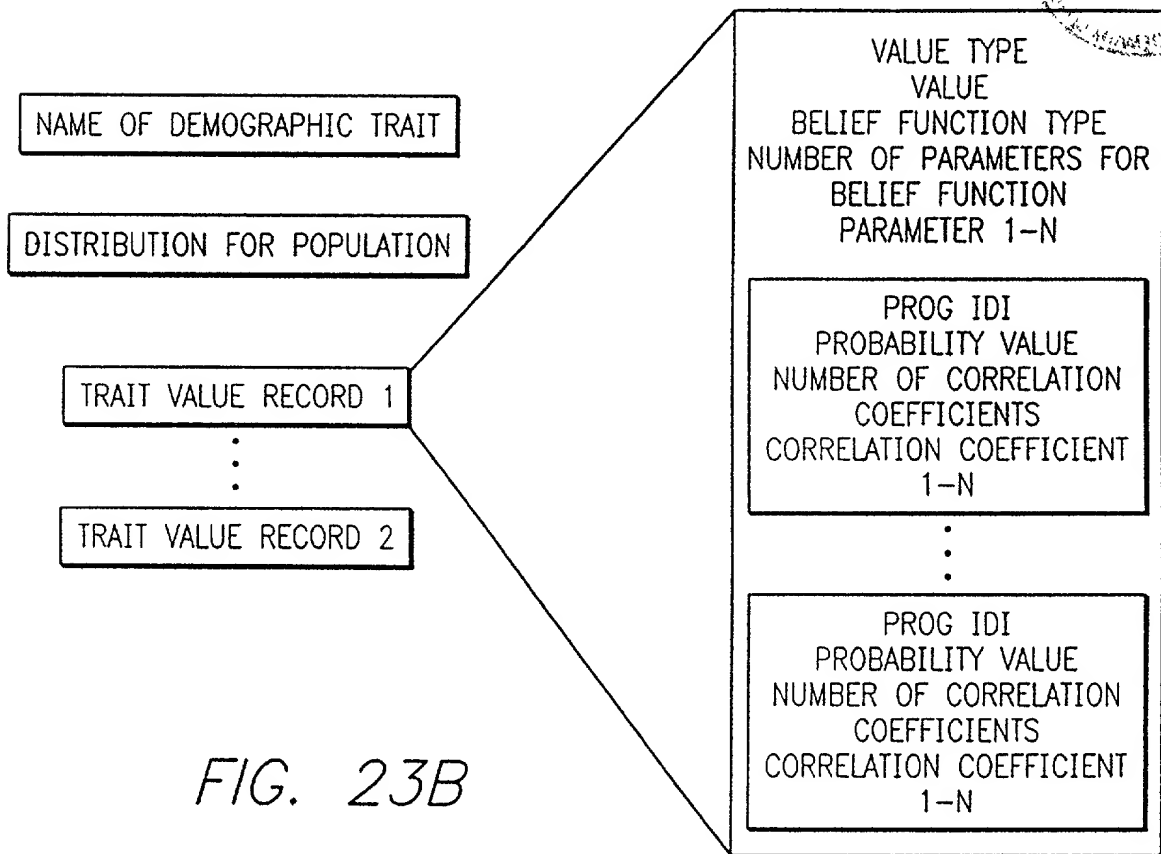


FIG. 23B

ADVERTISEMENT TARGETING RECORD FORMAT

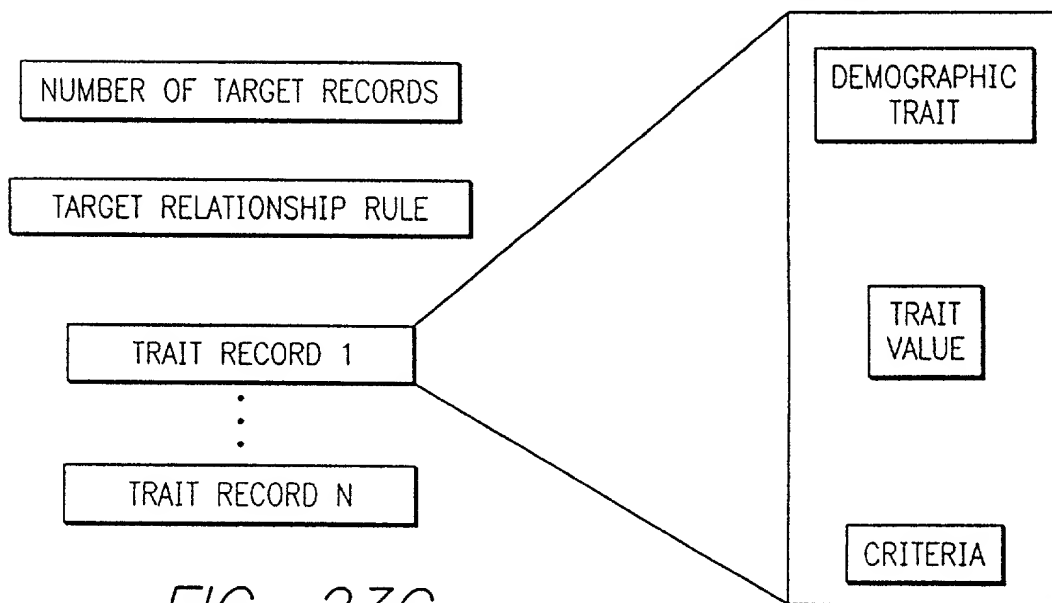


FIG. 23C

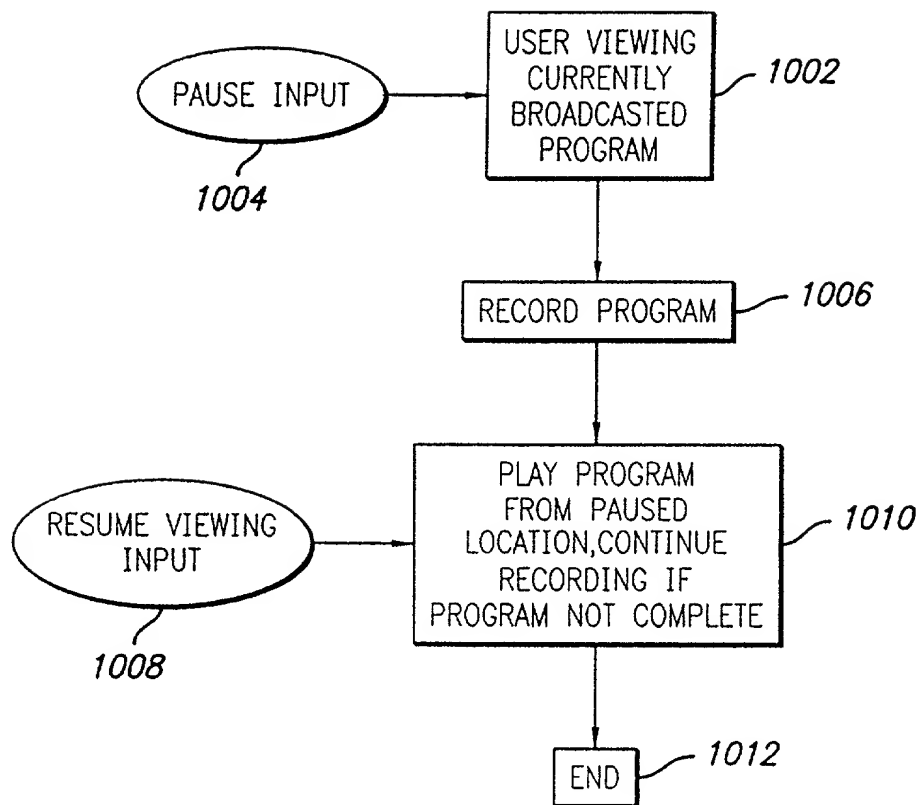
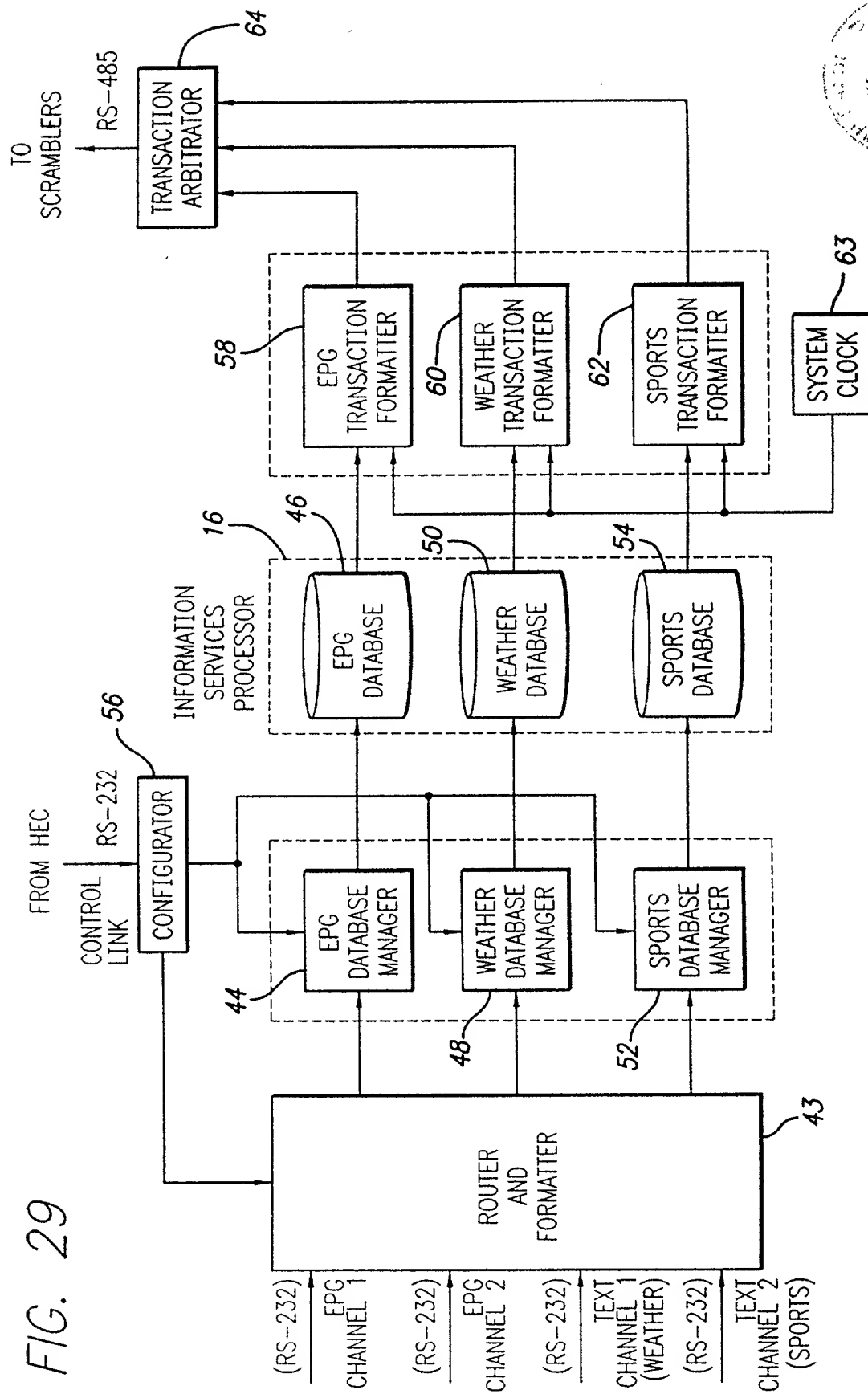


FIG. 27

FIG. 29



(INFORMATION FIELD)

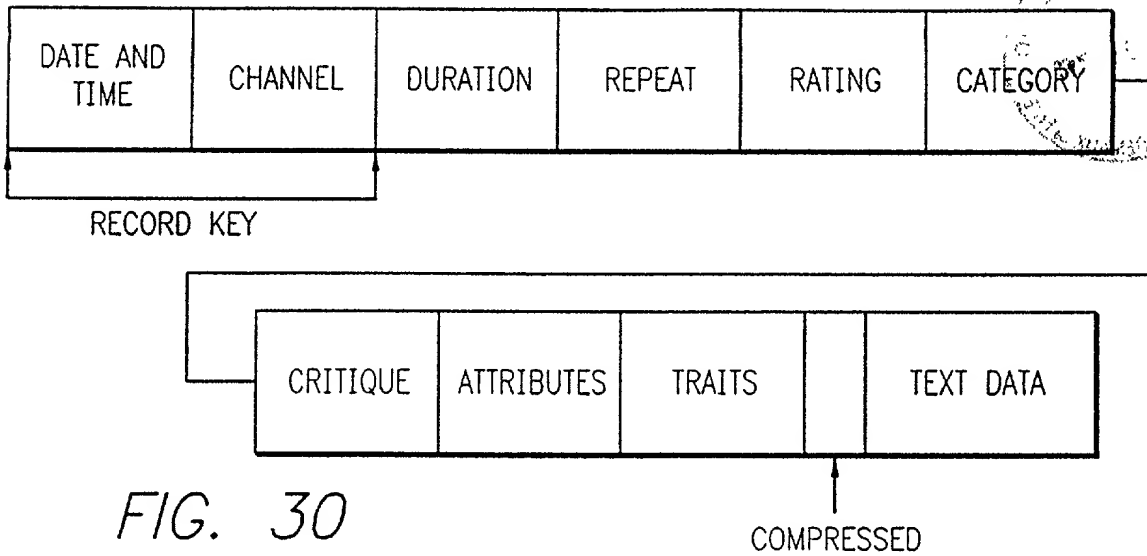


FIG. 30

(TO SCRAMBLERS)

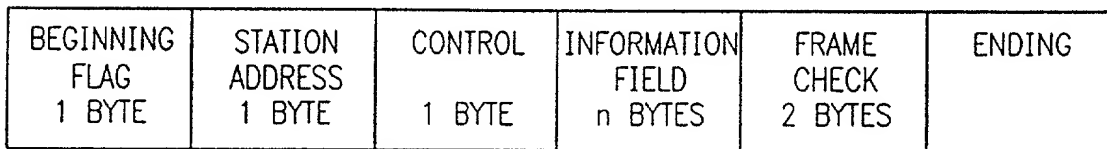


FIG. 31

TEXT CHANNEL TRANSACTION FORMATTER 60.62

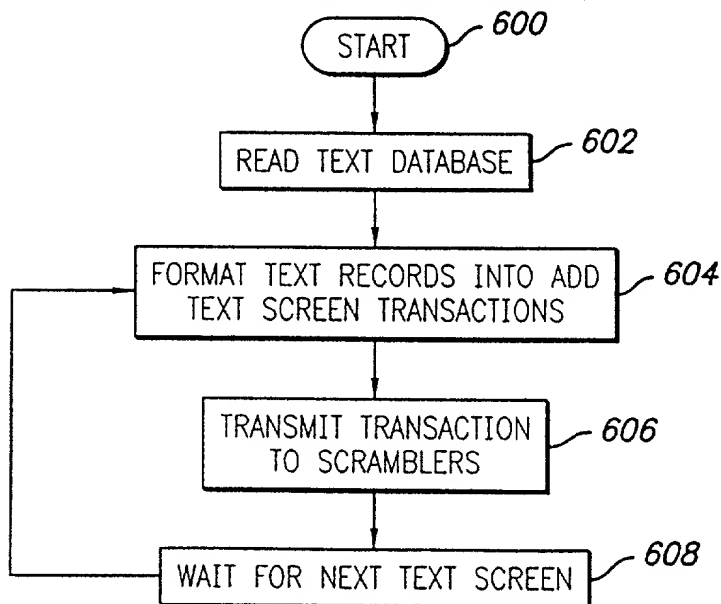


FIG. 33

EPG TRANSACTION FORMATTER 58

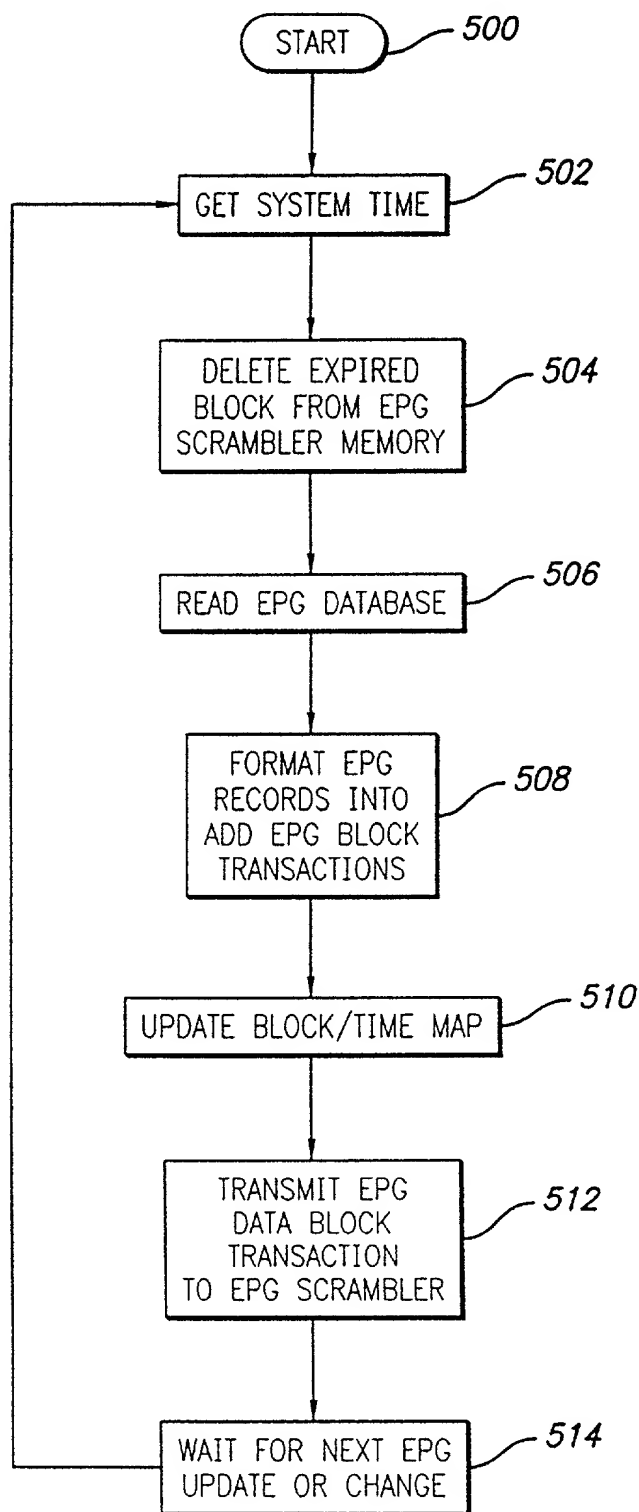


FIG. 32

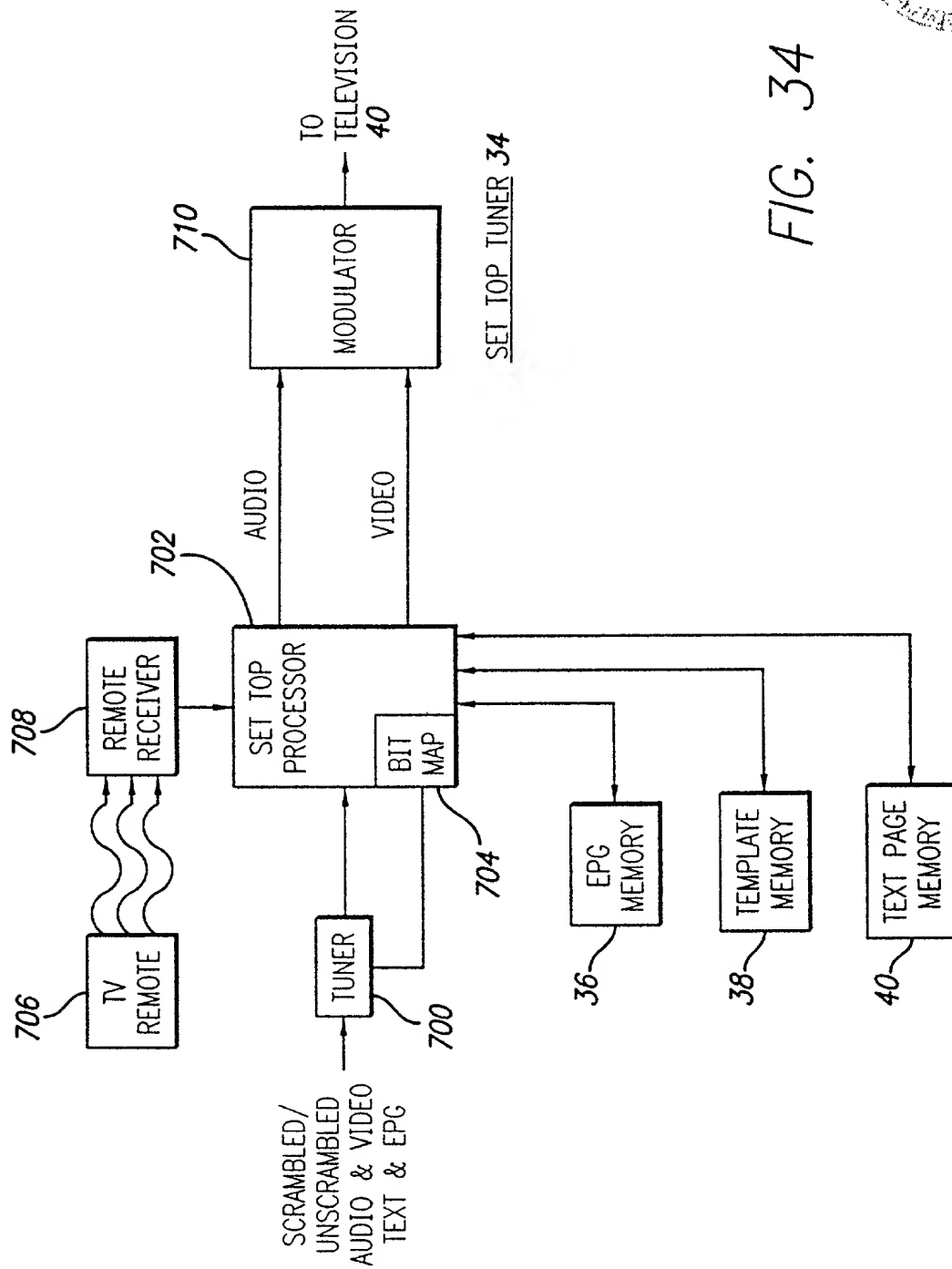
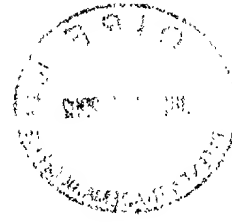


FIG. 34



PROCESS FOR AUTOMATICALLY CREATING MULTIPLE
PROFILES AND AUTOMATICALLY IDENTIFYING CURRENTLY ACTIVE PROFILES

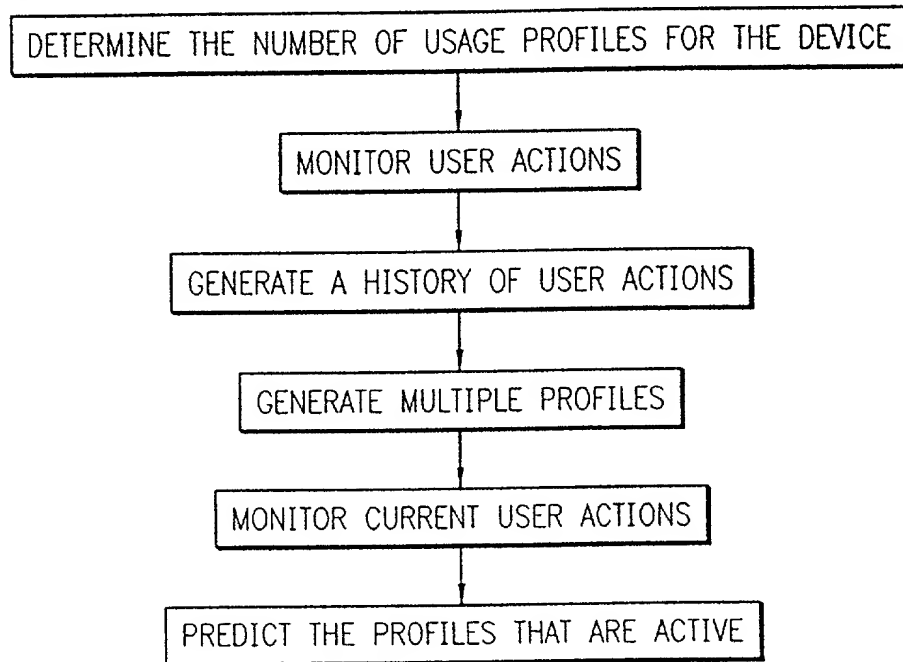


FIG. 35

CIRCULAR PROGRAM GUIDE

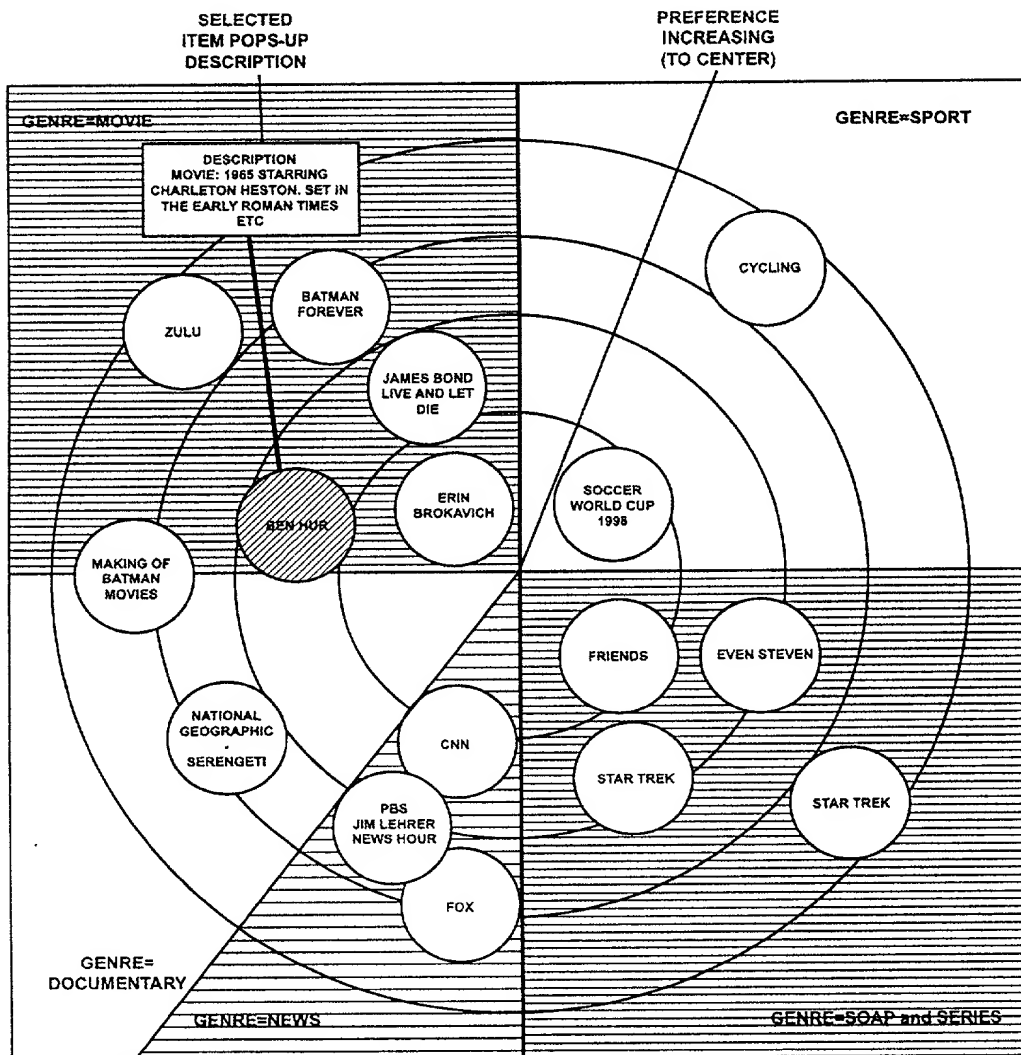


FIG. 36